54 GTC V	108 CTG L	162 CGA R	216 AAG K	270 GAC D	324 ACC T	378 GTG V
CCA P	CCT	TAC	CCC	AAG K	AGC	TAT Y
GTA V	ACC	ATT I	GAC	CTG	GAT D	ATC I
45 AGT S	99 TCC S	153 TGC C	207 GTT V	261 AAC N	315 GGT G	369 CGC R
caa Q	TAC	CCC	GAT	CCC	TTC	TCT
GAT D	9	CTG	GTG	ATG M	TGC	TCC
36 CGG R	90 CCC	144 TAC Y	198 ACT T	252 CCC P	306 AGC S	360 ATC I
CGC	GGA	GTC	GCC	CTG	AGC	CTC
ACC	TGT	ATC	CTG	CGG R	TGC	AGT
27 CAA Q	81 AAT N	135 GAG E	189 TAT Y	243 CAC H	297 ACC T	351 CCC P
CAG Q	999	GAA	GAT	ATC	AAC N	CTG
GCA A	TGT	AGG R	CCA P	GTC	TGG W	GTG V
18 CCA P	72 AAA K	126 CCC P	180 GCC A	234 CAG Q	288 GGA G	342 CTG L
ACA T	ACG	GGA	GAG	TGC	TCA	AAG K
CTG	GCT	AAA K	ACT	TAT Y	CAC H	ACC
9 CCT (63 ATG M	117 ATG M	171 GGC G	225 CAG Q	279 CAT H	333 CGC R
CGG R	AGC	GCC	ACA	CCC	CTG	TCG
NNG	9	GAG	AAC N	TCT	GAG	AAG K
- 2						

FIGURE 1A

O D	9 5	0 K	4 D	ထ ပု	0 D	ب ي
432 CCC P	486 CTG L	540 AAA K	594 GAG E	648 CAC H	702 TTC F	756 GAC D
GAG	TGC	9	TGG W	CGA R	9	TGG W
ATT I	CAC H	AAT N	ACA	CCT	GAT	GTA
423 GTC V	477 AGC S	531 GGC G	585 GGG G	639 CAG Q	693 CGA R	747 TAT Y
AAG K	ACC	AAG K	AAG K	TAC Y	TTA L	TTA L
CAC H	CAC H	GTC	GTG	TGG W	GTC	CAC H
414 CTG L	468 CTC L	522 GAC D	576 GAG E	630 TTC F	684 AAT N	738 AGC S
AAG K	l'IT F	GGA	TTC	GAC	CCC	9999
CCA	GCC	CTG	ACG	TAT	GCT	TAC Y
405 3CC	459 CTG L	513 TCC S	567 GAG E	621 GGC G	675 GCA A	729 CTG L
CCC CGG	GAA E	AGC	9999	$_{ m L}^{ m TTG}$	TGG W	GGA
CCC	IGC C	ATC	GAT D	CCG	GAG	GCT
396 GAG E	450 AAG K	504 ATG M	558 CTG L	612 GCA A	666 ACT T	720 GAG E
TCT	GCC	GTG	CTG	GCT	AGC 1	GTG V
9	CAT H	GAA E	GTG	GGT	ATC	GAT
387 GTG V	441 ATC I	495 GGG G	549 TTT F	603 GGG G	657 ATG M	711 GCT A
GAC	GAC	AGC	GGT	CCT	GTC	CCC
GTG V	AAG K	GCC	999	AGA R	AAT N	AAC

DOMEST NO. DESCRIPTION

FIGURE 1C

810 CCC P	864 TGC C	918 TCA S	972 CCC P	1026 CTC L	1080 CCA P	1134 GGA G
ATT I	66C G	TGG W	CTG L	TTC	GAC	AAG K
CTT	864 GTG GGC TGC V G C	ACA TGG	CTG L	CGC R	1080 TCT GAC CCA S D P	GTT V
801 GGG G	855 TTT F	909 GGT G	963 TGG W	.017 GAC D	1071 ATC I	.125 ATT I
GAT	9	GGA	9	1 GAC D	1 GAC D	1 AGC S
AAA K	CAA Q	GAG	AAG K	CTG	TAT Y	9
792 CTA L	846 GCC A	900 AAC N	954 GTG V	.008 TCC S	1062 CAG Q	.116 GGA G
TCT	GCT	AAG K	AAA K	CTC L	1 AGG R	CTC L
$_{ m L}$	GAC	TAC	AAG K	CTG	CTG L	TTC
783 ACC T	837 CCA P	891 TTC F	945 CCC P	999 ATC I	1053 GAC D	.107 CTC L
CAT GAG ATT GTG CAG ACC CTG TCT CTA AAA GAT GGG CTT ATT H E I V Q T L S L K D G L I	828 837 846 855 CGC TTC CTG CAC CAA GAC GCT GCC CAA GGC TTT R F L H N P D A A Q G F	882 891 900 909 TCC ACC ATC CAG CGC TTC TAC AAG AAC GAG GGA GGT S T I Q R F Y K N E G G	927 936 945 954 963 972 AAG GTG ATC CAG GTG CCC CAC AAG AAA GTG AAG GGC TGG CTG CCC K V I Q V P P K K V K G W L L P	GAC		CAG Q
GTG	CAC H	CAG Q	GTG V	ACC	CAT H	GGA
774 ATT I	828 CTG L	882 ATC I	936 CAG Q	990 ATC I	1044 CTG L	.098 ACA T
GAG	TTC	ACC	ATC	$^{ m CTG}_{ m L}$	TGG W	CTC
CAT H	CGC	TCC	GTG V	9	AAC N	CGC
765 CGC R	819 ATC I	873 AGC S	927 AAG K	981 CCA P	1035 AGC S	1089 CCC P
CAG Q	GAG	GCA CTC	GAG	981 990 999 1008 1017 1026 ATG CCA GCC CTG ATC ATC CTG CTC TCC CTG GAC GAC GCC TTC CTC M P G L I T D I L L S L D D R F L	1035 1044 1053 1062 1071 TAC TTC AGC AAC TGG CTG CTG AGG CAG TAT GAC ATC Y F S N W L H G D L R Q Y D I	1089 1098 1107 1116 1125 1134 CAG AGA CGC CTC ACA GGA CAG CTC TTC CTC GGA GGC AGC ATT GTT AAG GGA Q R P R L T G Q L F L G G S I V K G
TGG	TTG	GCA	GTG V	GAA	TAC	CAG

FIGURE 1D

1188	CTA	L	1242	CTG	ц	1296	CAG	ø	1350	GAC	Q	1404	AAG	×	1458	TGT	C	1512	TTG	
	CCC	д		AGC	Ø		AAG	×		GTA	>		999	Ö		GAT	Д		ATT	
	GAG	ш		CTC	L		GAC	Д		GAT	Q		TIC	Ēτι		GGC	ß		CCT	
1179	CCA	Д	1233	CAG	Ø	1287	TGG	M	341	$_{\mathrm{GTT}}$	>	395	GAC	D	1449	GGG	Ŋ	1503	CIC	
	CAG	α		ATC	Η		CCC	A	-	CAG	Ø	П	$_{\mathrm{GTG}}$	>	7	CCT	Д		ACA	
	TCC	Ŋ		ATG	Σ		AGT	Ŋ		CTG	ľ		CTG	П		TAC	¥		CCC	
1170	AAG	×	1224	CAG	ŏ	1278	TAC	×	.332	ATG	×	386	TTC	ſΞų	440	CGC	ĸ	1494	TCA	
1	CTA	П	П	CCT	Д	-	CTG	-I	7	GTG	>	П	AAC	z	1440	CTC	Г	_	TCA	
	GAA	ы		GGC	Ö		TCG	Ŋ		$_{ m LCT}$	Ŋ		CCC	Д		GAG	ы		CCC	
1161	GAG	ы	1215	GGA	Ö	1269	ACG	E	323	ggc	G	.377	AAC	z	1431	CAT	ш	1485	CCA	
_	GAC	Д		GCT	Ą	Н	ACC	₽	П	GAA	ы	П	$_{\mathrm{TTG}}$	ᆸ		೦೦೦	Ø		ACT	
	GAG	ы		GTG	>		ATC	н		AGG	24		AAG	×		CTT	П		TGA	
1152	CTG	П	1206	CGG	м	1260	TAC	¥	314	ATC	н	368	CTG	ı	422	CCC	A	1476	ATT	4
-	GTG	Δ	-	AAA	×	П	CIC	I.	7	CIC	П	1	GGG	Ŋ	1422	CCA	Д	-	TGG.	3
	CAA	α		GGA	D.		CGC	pz,		GAT	Д		GGA	_D		GGC	9		ATC	4
1143	GTG	Λ	1197	AAG	×	1251	AAG	M	305	CCT	Д	359	AAA	Ж	1413	CTT	ı	1467	GAC	۵.
⊣	CCT	G Р V Q V L Е D Е Е L К S Q Р Е Р L	_	GTC	$ \begin{smallmatrix} V \end{smallmatrix} V K G K R V A G G P Q M I Q L S L $	Н	GGG	DGKRLYITTSLYSAWDKQ	Т	TAC	F Y P D L I R E G S V M L Q V D V D	1	GTA	T V K G G L K L N P N F L V D F G K	Н	CCC	EPLGPALAHELRYPGGDC		AGC TCT GAC ATC TGG ATT TGA ACT CCA CCC TCA TCA CCC ACA CTC CCT ATT TTG	ū
	GGC	9		GTG	>		GAT	Ω		TTT	íz,		ACA	E		GAG	ы		AGC	Ω

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1566 GAC	1620 GTC	1674 . TGA	
000	TGA	CCA	
GCA	TGT	TTT	
1557 CTC TTG	1611 GCA ATG	1665 GCT	
		GCT	. ع
TCT	GTG	TGT	GTC
1548 TTC TGC	1602 GAG ACT	1656 GCT CAC	1710 CCT
	1 GAG		AAC
TCA	GCT	1647 TTG CTT GTT	CGT
1539 CTG GCT	1593 AGC CAA	1647 CTT	1701 TAA ACT
	1 AGC	1	1 TAA
GAC	CAC	1638 TGA CCA CTG	AAA
1530 CTT GGG	1584 GTA CCA	1638 . CCA	1692 ACC AAG
	1 GTA		
TTC	CAT	TAC	299
1521 CCT CAC	1575 CAG	1629 TAC ATT	1683 CTT GGA
	1 TGG		1 CTT
299	CCT	ATA	GCT

FIGURE 1E

01	01	01	03	α
HSEBP g1374792 g227630 g298710	HSEBP g1374792 g227630 g298710	HSEBP g1374792 g227630 g298710	HSEBP g1374792 g227630 g298710	HSEBP g1374792 g227630 g298710
HSEBP g137479 g227630 g298710	HSEBP g137479; g227630 g298710	HSEBP g137479; g227630 g298710	HSEBP g137479; g227630 g298710	HSEBP g137479; g227630 g298710
92 g	25 g	92 92 93	E 2 2 2	25 25 26
AAAA	ONOO	X X X X	XXXX	HHDD
E E E E E	H H H H	T T T T H H H H H H H H H H H H H H H H	0000	M M M M
5 5 5 5	A A A A	XXXX	0000	ZZZZ
6666	0000		K K Q Q	ннн
X X X X X X X X X X X X X X X X X X X	N H H H	R A B B B B B B B B B B B B B B B B B B	DDC	R R R R
Y Y R	ннн		0 0 0 0	0000
нннн	그그그그	пипи	<u> </u>	****
	D D D D	0 0 0 0 0 0 0 0		
	XXXX	>>>>	H H > >	
* * * *			ZZZZ	***
	NAAA			1 1 M M
	EEEE	7 7 7	0000	4 4 4
шыыы	пппп	нннн	00000	AAAS
T T T T	7777	2 2 2 2 2 2 2 2 2 2	LAALLA	G D B B B B B B B B B B B B B B B B B B
0 0 0	ннн	0 0 0 0 0	0000	0 0 0 0
XXXX	нннн	ннн	нннн	X XX X
AAAA	> > > > >	2 2 2 2	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	H H H H H
EEE	S S S	D D D D	H H H H	3333
그 그 그 그	K K K K	пппп	FOR N	5 5 5 5
	000 000 000	7711	A A S S	X X X X
0 0 0 0	ω ω ω ω	XXXX	디디ㅇㅇ	>>>>
P K K	A A A A	K K K K F K K K	N N N N	FFFF
9 4 4 9 6 6		SSSS	M M M M	
0 0 0 0	>>>>	X X X X	4444	шшшш
SEMM		2222	HHOO	0000
SUMM	FFFF		ОПЕ	
0000	AAAA	0 0 0 0	X X W W	
FFFF	LLL	0000 F F F F	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	P F F P P P P P P P P P P P P P P P P P
A TA	000	2 2 2 2	нннн	0 0 0 0
ZZZZ		ω ω ω ω	>>>>	0000
	4444	8888	121 121 121 121 121 121 121 121 121 121	161 161 161 161

FIGURE 2A

201 STEWAAPNVLRDGFNPADVEAGLYGSHLYVWDWQRHEIVQ HSBP	241 TLSLKDGLIPLEIRFLHNPDAAQGFVGCALSSTIQRFYKN HSBP	281 REGTWSVEKVIQVPPKKVKGWLLPEMPGLITDILLSLDDR HSBP	321 FLYFSNWLHGDLRQYDISDPQRPRLTGQLFLGGSIVKGGP HSEBP 321 FLYFSNWLHGDLRQYDISDPQRPRLTGQLFLGGSIVKGGP 3334 74792 321 FLYFSNWLHGDIRQYDISNPQKPRLAGQIFLGGSIVRGGS 2227630 321 FLYFSNWLHGDIRQYDISNPQKPRLAGQIFLGGSIVRGGS 2227630 321 FLYFSNWLHGDIRQYDISNPQKPRLTGQIFLGGSIVRGGS 2298710	361 VQVLEDEELKSQPEPLVVKGKRVAGGPQMIQLSLDGKRLY HSEBP
201 STEWAAPNVLRDGFNPADVEAGLYGSHLYVWDWQRHEIVQ 91374792	241 TLSLKDGLIPLEIRFLHNPSATQGFVGCASAPNIQRFYKT 91374792	281 REGTWSVEKVIQVPPKKVKGWLLPGVPGLITDILLSLDDR 91374792		361 VQVLEDEELKSQPEPLVVKGKRVAGGPQMIQLSLDGKRLY g1374792
201 STEWAAPNVFKDGTNPAHVEAGLYGSRIFVWDWQRHEIIQ 9227630	241 TLQMTDGLIPLEIRFLHDPSATQGFVGCASAPNIQRFYKN 9227630	281 AEGTWSVEKVIQVPSKKVKGWMLPGVPGLITDILLSLDDR 9227630		361 VQVLEDQELTCQPEPLVVKGKRIPPGGPQMIQLSLDGKRLY g227630
201 STEWAAPNVFKDGFNPAHVEAGLYGSRIFVWDWQRHEIIQ 9298710	241 TLQMTDGLIPLEIRFLHDPSATQGFVGCALSSNIQRFYKN 9228710	281 GEGTWSVEKVIQVPSKKVKGWMLPEMPGLITDILLSLDDR 9229710		361 VQVLEDQELTCQPEPLVVKGKRIPPGGPQMIQLSLDGKRLY g228710
0 0 0 0	2000		.,	

FIGURE 2B

HSEBP	HSEBP
9 g1374792	g1374792
9 g227630	g227630
9 g298710	g298710
401 ITTSLYSAWDKQFYPDLIREGSVMLQVDVDTVKGGLKLNP F	441 NFLVDFGKEPLGPALAHELRYPGGDCSSDIWI
401 ITTSLYSAWEKQFYPDLIREGSVMLQVDVDTVKGGLKLNP 9	441 NCLVDFGKEPLGPALAHELRYPGGDCSSDIWI
401 ATTSLYSAWDKQFYPDLIREGSMMLQIDVDTVNGGLKLNP 9	441 NFLVDFGKLPLGAALAHELRYPGGDCSSDIWI
401 ATTSLYSAWDKQFYPDLIREGSVMLQVDVDTVNGGLKLNP 9	441 NFLVDFGKEPLGPALAHELRYPGGDCSSDIWI
7. 2. 2. 2.	1 1 1 1

FIGURE 2C

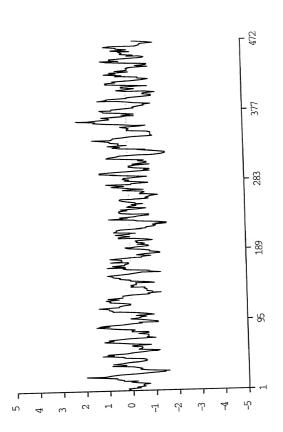
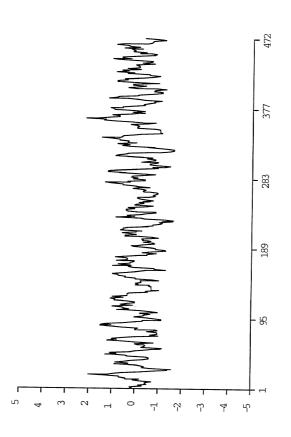


FIGURE 3



IGURE 4

Library	Lib Description	Abun	Pct Abun
		1	
COLNNOT13	colon, ascending, 28 M	0	0 0621
PROSTUT01	prostate tumor, 50 M. match to PROSNOTO	3 (0.002
COLINIOT16	colon, 62 M. match to conversions	71 (0.0019
COLMNOT11		7	0.0589
		~	0.0307
TOLLOLLOLL	tongue tumor, carcinoma, 36 M	7	0.0295
PANCTUT01	pancreatic tumor, 65 F, match to PANCNOT08	-	0.0257
COLNTUT02	colon tumor, 75 match to COLNNOT01	- ، ا	0 0000
LUNGNOT03	lung, 79 M, match to LUNGTUT02	٠, ١	0.0000
LUNGTUT02	lung tumor, metastasis, 79 M match to Linguomos	- ←	0.0200
PROSTUT04	prostate timor 57 M match to prognance	⊣ ,	0.0166
COMOMOTOR	The second comment of any marchine of Fronting	-	0.0163
CORPNOTOZ	brain, corpus callosum, Alzheimer's, 74 M	П	0.0152
LUNGAST01	lung, asthma, 17 M	1	0.0150
THYRNOT03	thyroid tumor, adenoma, 28 F	⊣	0.0138

FIGURE 5